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Presents an overview of the structure and internal convective motions that control the earth's surface and environment. Volume 5 serves as a companion to Volume 4. \$25



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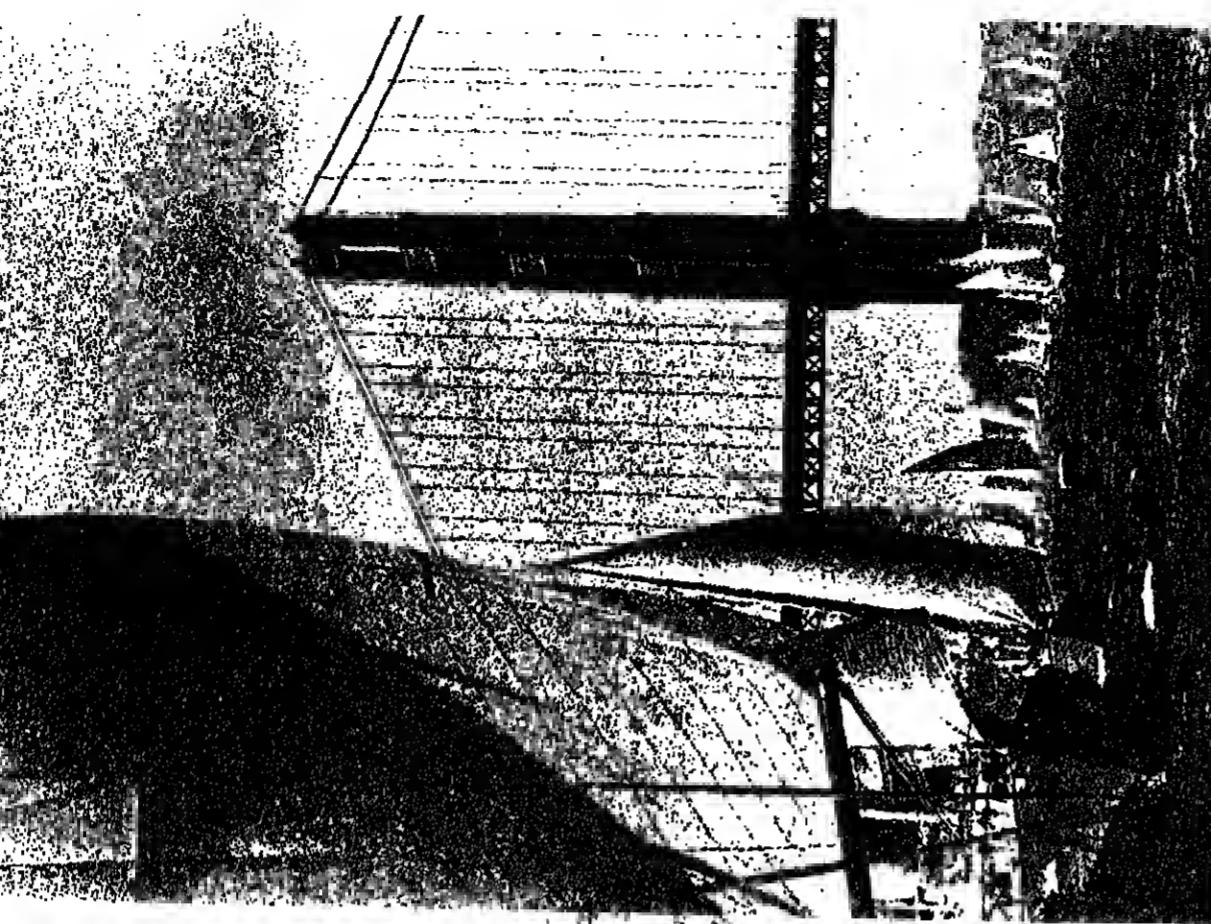
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**Article (cont. from p. 609)**

cal characteristics of material in the asthenosphere. Shorter wavelength features ( $\lambda < 100$  km) are indicative of the relative density, nature, and physical state of the lithosphere and crust. Marsh and Marsh [1976] and Lubetich [1976] have correlated patterns in the global free-air gravity anomaly field with geological features, convection, and density inhomogeneities.

Magnetic field data obtained from GRM will enable comparable insights into our understanding of the solid earth. Both the vector and scalar magnetic field measurements will be used to further refine the geomagnetic reference field models, which are being continually improved (Figure 3). When the dense and precise GRM values are used alone or combined with the earlier reference field [Langel et al., 1980] we will see the time-varying magnetic field as never before. The time terms derived from this comparison can be applied in the community used International Geomagnetic Reference Field [Pavlis, 1981] for the practical applications of magnetic survey reductions and compilation of areally contiguous magnetic charts. In maintaining global reference field models it is necessary to record the magnetic field periodically in order to detect the instead temporal field variations.

Beyond the mechanics of refining the reference fields for chart reduction and navigational purposes, a great deal can be learned about the earth's interior from these studies. The energy distribution in the lower harmonics in the magnetic field are important parameters in studies of the earth's core [Henderson et al., 1970].

Shorter wavelength features ( $\lambda \leq 500$  km) of the magnetic field, the so-called anomaly field, have been interpreted to be the result of: (1) intracrustal contrast in magnetization [Regan and Marsh, 1982; Mayhew et al., 1982]; (2) variation in the thickness of the crustal magnetized layer by Curie isotherm depth [Mayhew, 1982] or crustal thickness [Schultz and Allred, 1983]; and (3) surface geological/geomagnetic features [Frey, 1982].

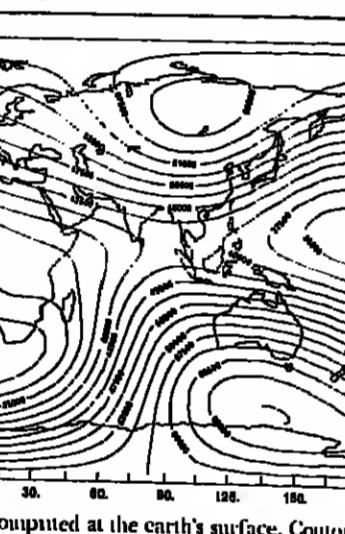


Fig. 5. Magnetic-anomaly field profiles along 37° north latitude. Data from Figures 4 and 6. Prominent tectonic/geophysical features are given for reference.

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